## **CLAIMS**

- A system for transmitting a GPS receiver code-phase search range to a
   integrated GPS/wireless terminal unit operating in a wireless network, said system comprising:
- 4 a receiver operable to generate a GPS time reference;
- a controller operable to calculate a GPS code-phase search range with reference to a base station geographic location, the wireless coverage area, said GPS time reference and the estimated wireless signal propagation delay within said coverage area, and
- a transmitter coupled to said controller and operable to transmit said calculated GPS code search range.
- 2. The invention of Claim 1 wherein said GPS code-phase search range is
  2 defined by a center value and a size value.
- 3. A system for transmitting a GPS receiver code-phase search range to a
   integrated GPS/wireless terminal unit operating in a wireless network, comprising:
  - a GPS receiver operable to generate a GPS time reference;
- 4 means for obtaining a time offset for the GPS/wireless terminal unit relative to said GPS time reference;
- a controller operable to calculate a GPS code-phase search range with reference to a base station geographic location, the wireless coverage area, and said time reference; and
- a transmitter coupled to said controller and operable to transmit said calculated

  GPS code search range.
- 4. The invention of Claim 3 wherein said GPS code-phase search range is2 defined by a center value and a size value.

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- The invention of Claim 3 wherein said means for obtaining a time offset
   utilizes the round-trip wireless signal propagation time between said base station and the terminal unit to establish said time offset.
- 6. A system for transmitting a GPS receiver code-phase search range to a integrated GPS/wireless terminal unit operating in a wireless network, comprising:

a GPS receiver operable to generate a GPS time reference;

- means for obtaining a time offset for the GPS/wireless terminal unit relative to said GPS time reference:
- 6 means for obtaining a location reference for the GPS/wireless terminal unit;
- a controller operable to calculate a GPS code-phase search range with reference to said location reference, and said time reference; and
- a transmitter coupled to said controller and operable to transmit said calculated GPS code search range.
- 7. The invention of Claim 6 wherein said GPS code-phase search range is defined by a center value and a size value.
- The invention of Claim 6 wherein said means for obtaining a location
   reference utilizes means for providing terrestrial based trilateration to establish said location reference.

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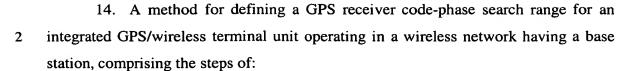
9. A method for defining a GPS receiver code-phase search range for an
2 integrated GPS/wireless terminal unit operating in a wireless network having a base station, comprising the steps of:

calculating a GPS code-phase search range with reference to the base station geographic location plus the wireless coverage area, and with reference to a base station GPS time reference plus the estimated wireless signal propagation delay within said coverage area and

transmitting said calculated GPS code-phase search range.

- 10. The invention of Claim 9 wherein said GPS code-phase search range isdefined by a center value and a size value.
- 11. A method for defining a GPS receiver code-phase search range for an
   2 integrated GPS/wireless terminal unit operating in a wireless network having a base station, comprising the steps of:
  - obtaining a time reference for the GPS/wireless terminal unit establishing the time offset relative to the base station GPS time;
  - calculating a GPS code-phase search range with reference to the base station geographic location plus the wireless coverage area, and said time reference; and
  - transmitting said calculated GPS code-phase search range.
- 12. The invention of Claim 11 wherein said GPS code-phase search range is2 defined by a center value and a size value.
- 13. The invention of Claim 11 wherein said obtaining step utilizes the round trip wireless signal propagation time between said base station and the terminal unit to establish the time offset.

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- obtaining a time reference for the GPS/wireless terminal unit establishing the time offset relative to the base station GPS time;
- obtaining a location reference for the GPS/wireless terminal unit;
- calculating a GPS code-phase search range with reference to said location
- 8 reference, and said time reference; and

transmitting said calculated GPS code-phase search range by the base station.

- 15. The invention of Claim 14 wherein said GPS code-phase search range isdefined by a center value and a size value.
- The invention of Claim 14 wherein said obtaining a location reference
   step utilizes terrestrial based trilateration techniques to establish said location reference.